### Polycrypto

Polynomials are a very useful branch of mathematics. They can also hide secrets. Can you find what this one is hiding? [https://mega.nz/#!mLJXWCIS!ZLpbPEGzhPevFeLGwUv6imuRTl19jiO5q-P7\_dVaXo](https://mega.nz/" \l "!mLJXWCIS!ZLpbPEGzhPevFeLGwUv6imuRTl19jiO5q-P7_dVaXo)M https://en.wikipedia.org/wiki/Finite\_field\_arithmetic

Well this was an interesting question. Just needed some basic knowledge about Finite Field Arithmetic and CRC. After converting given polynomial function to binary which is :

Binary : 110011001101100011000010110011101111011011100000011000001101100011110010110111001101111011011010011000101100001011011000111001101011111001101000111001000110011010111110110101100110000001100000110110001111101

After converting this binary to hexadecimal following hex string was obtained : 666C61677B70306C796E6F6D31616C735F3472335F6B30306C7D

After converting this hex to ascii the flag was retrieved : flag{p0lynom1als\_4r3\_k00l}